

California Energy Commission



CLASSIFICATION: Air Resources Engineer

TENURE: Permanent

TIME BASE: Full Time

SALARY: \$4,608.00-\$8,630.00

LOCATION: Energy Research Generation Office
Energy Research and Development Division

FINAL FILING DATE: Until Filled

DUTIES/RESPONSIBILITIES:

Under the general supervision of the Energy Resources Specialist III (Managerial) and the Technical Lead of the Environmental Program Area in the Energy Generation Research Office, the incumbent provides air quality engineering support to the Environmental Program Area Team. The incumbent conducts technical analyses and provides direction in the development of natural gas and electricity research projects funded by the Energy Commission (Commission) related to air quality, energy efficiency, and renewable energy. The incumbent contributes with engineering skills and technical assessments to an interdisciplinary team and assists the management with program planning and implementation of projects addressing energy policy.

While performing the duties described below, the incumbent will be required to work alone, work within a team, utilizing a personal computer and appropriate Energy Commission software such as the Microsoft suite of software, electronic mail and the Internet. The incumbent will be required to plan, organize, assist and/or participate in meetings with other Energy Commission staff, staff from other federal and state agencies, consultants, contractors, and other parties active in energy-related research and development. The incumbent will perform duties as follows:

- Provide engineering analysis and technical support including planning and organizing engineering projects to monitor, test, evaluate and mitigate air quality and public health impacts. The projects for which the incumbent is responsible involve technical engineering issues relating to the energy system including components of the natural gas and electricity systems. In addition, the incumbent has a good technical expertise in the engineering aspects of energy efficiency, HVAC, furnaces, steam boilers, engines, gas turbines, combined heat and power, conversion technologies and processes, and other technologies, components, and systems. The incumbent leads analysis of assessments of key engineering issues affecting the energy sector including evaluations and analysis of energy/environmental trends and drivers, technological responses, identification of engineering problems, possible engineering solutions, and recommendations for research initiatives sponsored by the Commission. The incumbent participates in technical scoring committees and provides his/her engineering expertise in reviewing proposals and provides recommendations for project funding. The incumbent directs research project design/scope; task descriptions; reviews and approves test plans and protocols; and reviews the content of final products.
- Conduct engineering research projects including evaluating performance, quality control/assurance, reviewing interim research products (e.g. results of surveys, test results, design drawings, etc); evaluating technical changes to project budget/scope; and reviewing/approving final products from completed projects.

- Engage public and private entities addressing energy related air quality and climate change research and related issues important to the Commission. This function requires the incumbent to effectively communicate research to other engineers, researchers and the public at large, requiring both a good degree of technical knowledge and expertise and sensitivity to policy issues. In addition to technical proficiency, this liaison responsibility may include assisting with interactions and detailed negotiations with other projects or programs both internally and externally, including national organizations such as the US Department of Energy (DOE), US Environmental Protection Agency (EPA), American Gas Association, the US Global Change Research Program, Air Resources Board (ARB), Air Districts and Investor Owned Utilities (IOUs).
- Direct and perform more complex engineering assessments, and provide technical advice and expert testimony relating to air quality and public health impacts from mechanical systems including: heating and air conditioning (HVAC), furnaces, steam boilers, engines, gas turbines and other energy technologies for senior and executive managers, Commissioners and decision-makers and in the preparation of key policy documents such as the Integrated Energy Policy Report.

WORKING CONDITIONS:

Work is performed primarily in an office and hearing room environment and may require sitting for long periods of time. Work area is well lighted and ventilation is adequate. The noise level is sometimes high. Some travel is required to attend off-site meetings.

DESIRABLE EXPERIENCE/QUALIFICATIONS:

- Excellent interpersonal skills and expected to work within a large team environment.
- Ability to communicate complicated information in a simple, consumer-friendly manner.
- Ability to coordinate interdisciplinary projects.

The full duty statement is available at <http://www.energy.ca.gov/careers/jobs.html>

WHO MAY APPLY: All interested eligible persons are encouraged to apply. Interested applicants must submit a completed Standard State Application (Form STD. 678) to the address listed below. Electronic applications will not be accepted. **You must clearly indicate the basis of your eligibility (i.e., list, transfer, SROA/Surplus, reinstatement, etc.) and include RPA #560-229 and Position #5600-3735-001 in the explanation section of the STD. 678.**

PLEASE NOTE: *Possession of minimum qualifications will be verified prior to interview and/or appointment. If it is determined an applicant does not meet the minimum qualifications, the application may be forwarded to the State Personnel Board for review and the applicant's name may be removed from the eligibility list.*

INTERESTED APPLICANTS SHOULD SUBMIT A COMPLETED STANDARD STATE APPLICATION (FORM STD. 678) TO:

Attn: Personnel Services (RPA 560-229)
Personnel Office
1516 Ninth Street, M.S. #3
Sacramento, CA 95814
(916) 653-4309

personnelservices@energy.ca.gov

**California Relay (Telephone) Service for the
Deaf or Hearing-Impaired**
From hTDD Phones: 1-800-735-2929
From Voice Phones: 1-800-735-2922